

PATENT COOPERATION TREATY
PCT
INTERNATIONAL SEARCH REPORT
(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 9577-58 KAM	FOR FURTHER ACTION <div style="text-align: right; font-size: small;">see Form PCT/ISA/220 as well as, where applicable, item 5 below</div>	
International application No. PCT/CA2007/000548	International filing date (<i>day/month/year</i>) 03 April 2007 (03-04-2007)	(Earliest) Priority date (<i>day/month/year</i>) 03 April 2006 (03-04-2006)
Applicant ODIDI, ISA ET AL		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 6 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the language, the international search was carried out on the basis of:
- ☒ the international application in the language in which it was filed
- ☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))
- b. ☐ This international search report has been established taking into account the rectification of an obvious mistake authorized by or notified to this Authority under Rule 91 (Rule 43.6bis(a)).
- c. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I

2. ☒ Certain claims were found unsearchable (see Box No. II)

3. ☒ Unity of invention is lacking (see Box No. III)

4. With regard to the title,

☒ the text is approved as submitted by the applicant

☐ the text has been established by this Authority to read as follows :

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant

☐ the text has been established, according to Rule 38.2, by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority

6. With regard to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No. 1

☐ as suggested by the applicant

☒ as selected by this Authority, because the applicant failed to suggest a figure

☐ as selected by this Authority, because this figure better characterizes the invention

b. ☐ none of the figures is to be published with the abstract

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of the first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons :

1. ☒ Claim Nos. : 51 and 52
because they relate to subject matter not required to be searched by this Authority, namely :

Claims 51 and 52 are directed to a method for treatment of the human or animal body by surgery or therapy, are not required to be searched nor is a written opinion required by this Authority. Regardless, this Authority has established a written opinion based on the alleged effect or purpose/use of the product defined in claims 51 and 52.
2. ☐ Claim Nos. :
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically :
3. ☐ Claim Nos. :
because they are dependant claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows :

Group A: Claims 1-30, 51-56 (in part) and 57-66 are directed to a drug delivery composition comprising extruded spheroids, the spheroids comprising at least one active pharmaceutical ingredient; at least one extrusion-spheronization aid; at least one superdisintegrant; and at least one glidant, at least one lubricant; and/or at least one oil, a method of making the same as well as its use in pharmaceutical and medical fields

Group B: Claims 31-50 and 51-56 (in part) are directed to a drug delivery composition comprising coated spheroids having inert spheroids and at least one coating for the spheroids, the coating comprising at least one active pharmaceutical ingredient and at least one superdisintegrant and its use in pharmaceutical and medical fields.

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☒ As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claim Nos. :
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claim Nos. :

Remark on Protest ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA2007/000548

A. CLASSIFICATION OF SUBJECT MATTER
IPC: *A61K 9/54* (2006.01) , *A61J 3/00* (2006.01) , *A61K 9/24* (2006.01)
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC: *A61K 9/54* (2006.01) , *A61J 3/00* (2006.01) , *A61K 9/24* (2006.01)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms used)
Delphion, Canadian Patent Database, Google Scholar and Scopus

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6673367 (Euro-Celtique), 06 January 2004 The whole document	1-66
X	US 2003/0215507 (Wyeth), 20 November 2003 The whole document	11-21 and 22-30 (in part)
X	US 6558704 (Gruenthal GmbH), 06 May 2003 The whole document	1-66
X	US 2002/0002147 (R. Abramowitz), 03 January 2002 Paragraphs [0008]-[0010], [0012]-[0014] and claims	11-21 and 22-30 (in part)
X	US 5049394 (E. R. Squibb & Sons, Inc) 17 September 1991 The whole document	1-11 and 22-30 (in part)
X	WO 2004/056354 (Ranbaxy Laboratories Limited), 8 July 2004 The whole document	11-21 and 22-30 (in part)
X	WO 02/30398 (Euroceltique S.A.), 18 April 2002 Page 6, lines 3-6; page 7, lines 7-12 and 23-29; page 9, lines 6-10; page 16, lines 9-15; page 17, lines 15-16; and claims 1-14	11-212 and 22-30 (in part)

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents :	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search
16 May 2007 (16-05-2007)

Date of mailing of the international search report
27 July 2007 (27-07-2007)

Name and mailing address of the ISA/CA
Canadian Intellectual Property Office
Place du Portage I, C114 - 1st Floor, Box PCT
50 Victoria Street
Gatineau, Quebec K1A 0C9
Facsimile No.: 001-819-953-2476

Authorized officer
Nasreddine Slougui 819- 956-6132

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/CA2007/000548

Patent document Cited in the Search Report	Publication Date	Patent Family Member(s)	Publication Date
US6673367	06-01-2004	AU2371200 A	03-07-2000
		CA2355644 A1	22-06-2000
		EP1140088 A1	10-10-2001
		JP2002532426T T	02-10-2002
		US7083808 B2	01-08-2006
		WO0035450 A1	22-06-2000
US2003215507	20-11-2003	AT237320T T	15-05-2003
		AT257011T T	15-01-2004
		AU727653B B2	21-12-2000
		AU747978B B2	30-05-2002
		AU1300399 A	24-05-1999
		AU1640097 A	02-10-1997
		BG104397 A	28-02-2001
		BR9701304 A	29-09-1998
		BR9813179 A	22-08-2000
		CA2199778 A1	25-09-1997
		CA2305242 A1	14-05-1999
		CN1090018C C	04-09-2002
		CN1278165 A	27-12-2000
		CN1403077 A	19-03-2003
		CY2442 A	12-11-2004
		CZ291637 B6	16-04-2003
		CZ20001659 A3	17-10-2001
		DE69727000D D1	05-02-2004
		DE69727000T T2	09-06-2004
		DE69813602D D1	22-05-2003
		DE69813602T T2	06-11-2003
		DK797991T T3	05-04-2004
		DK1028718T T3	28-07-2003
		EE4577 B1	15-02-2006
		EP0797991 A1	01-10-1997
		EP1028718 A2	23-08-2000
		EP1331003 A1	30-07-2003
		ES2196620T T3	16-12-2003
		ES2210454T T3	01-07-2004
		HK1029056 A1	21-11-2003
		HR20000213 A2	31-12-2000
		HU224617 B1	28-11-2005
		HU225238 B1	28-08-2006
		ID26317 A	14-12-2000
		IL120382 A	24-06-2003
		IL135457D D0	20-05-2001
		IL151450 A	31-08-2005
		IN187337 A1	30-03-2002
		JP10007552 A	13-01-1998
		JP2001521892T T	13-11-2001
		MA24691 A1	01-07-1999
		NO320355B B1	28-11-2005
		NO20002126 A	04-05-2000
		NO20050379 A	26-09-1997
		NZ314442 A	29-06-1999
		NZ504460 A	31-01-2003
		PL188444B B1	28-02-2005
		PL341141 A1	26-03-2001
		PT797991T T	31-05-2004
		PT1028718T T	31-07-2003

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA2007/000548

		RU2176912 C2	20-12-2001
		SI797991T T1	30-04-2004
		SI1028718T T1	31-08-2003
		SK30197 A3	08-10-1997
		SK6472000 A3	07-11-2000
		TR9700190 A2	21-10-1997
		TR200001232T T2	21-12-2000
		TW493993B B	11-07-2002
		TW555568B B	01-10-2003
		UA77145 C2	15-11-2006
		US6274171 B1	14-08-2001
		US6403120 B1	11-06-2002
		US6419958 B2	16-07-2002
		US2002197307 A1	26-12-2002
		US2006062843 A1	23-03-2006
		US2006067999 A1	30-03-2006
		US2006068000 A1	30-03-2006
		US2006068001 A1	30-03-2006
		US2006068002 A1	30-03-2006
		US2006068017 A1	30-03-2006
		CZ20023003 A3	13-11-2002
		EE200200564 A	15-06-2004
		EP1267879 A2	02-01-2003
		HU0302631 A2	28-11-2003
		IL151475D D0	10-04-2003
		JP2003528905T T	30-09-2003
		LT5045 B	25-08-2003
		LV12939 B	20-04-2003
		MXPA02009534 A	14-05-2003
		NO20024645 A	27-09-2002
		NZ522250 A	24-09-2004
		US2006068018 A1	30-03-2006
		US2006073201 A1	06-04-2006
		WO9922724 A2	14-05-1999
		RU2221553 C2	20-01-2004
		SK2854238 B6	04-01-2007
		US6558704 B1	06-05-2003
		ZA200000169 A	07-08-2000
US20020002147	03-01-2002	AR027748 A1	09-04-2003
		AU4959101 A	15-10-2001
		BG107157 A	30-06-2003
		BR0109602 A	29-06-2004
		CA2404687 A1	11-10-2001
		CN1187052C C	02-02-2005
		ZA9702403 A	21-09-1998
US5049394	17-09-1991	CA1334074 C	24-01-1995
		DE3830749 A1	30-03-1989
		FR2620332 A1	17-03-1989
		GB2209669 A	24-05-1989
		IT1227336 B	08-04-1991
		JP1156913 A	20-06-1989
		US5049394 A	17-09-1991

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA2007/000548

US6558704	06-05-2003	AU7642808 B2 CA2295470 A1 CN1161108C C CZ291936 B6 NZ502264 A PL337864 A1 ZA9810081 A DE19901692 A1 EP1020181 A1 HU0000141 A2 IL134079 A JP2000212068 A PL366089 A1 RU2239435 C2 SK12822002 A3 US7135465 B2 WO0174329 A2	14-08-2003 18-07-2000 11-08-2004 18-06-2003 30-11-2001 31-07-2000 04-05-2000 20-07-2000 19-07-2000 28-12-2000 15-12-2004 02-08-2000 24-01-2005 10-11-2004 04-02-2003 14-11-2006 11-10-2001
WO2004056354	08-07-2004	AU2003288604 A1 BR0317567 A CA2511208 A1 CN1744889 A EP1596849 A1 IN192381 A1 JP2006512358T T RU2005121999 A	14-07-2004 22-11-2005 08-07-2004 08-03-2006 23-11-2005 10-04-2004 13-04-2006 20-01-2006
WO0230398	18-04-2002	AU9208601 A BR0114633 A CA2433186 A1 CN1489455 A DE20121853U U1 EP1324752 A2 GB0025208D D0 IL155293D D0 JP2004510812T T MXPA03003235 A US2004052846 A1 US2007071820 A1	22-04-2002 10-02-2004 18-04-2002 14-04-2004 31-07-2003 09-07-2003 29-11-2000 23-11-2003 08-04-2004 15-10-2003 18-03-2004 29-03-2007